

## LIČNE INFORMACIJE



## Edvin Skaljo

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Pol muški | Datum rođenja: .17.9.1969 | Državljanstvo BiH

## RADNO ISKUSTVO

Oktober 2019 – Danas

**Specijalista sa 90% Ugovora o radu**

BH Telecom dd. Sarajevo

April 2019 - Danas

**Vanredni profesor iz oblasti "Elektronika" sa 10% Ugovora o radu**

Prirodno-matematički fakultet Univerziteta u Sarajevu

Juli 2014 – 2019

**Docent iz oblasti "Elektronika"**

Prirodno-matematički fakultet Univerziteta u Sarajevu

Februar 1999 – Oktober 2019

**Šef Odjeljenja/Šef Službe**

BH Telecom dd Sarajevo

Septembar 1996 –1996

**Stručni saradnik**

BH Telecom dd. Sarjevo

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## OBRAZOVANJE I OBUKE

2014

**Doktor fizičkih nauka**

Fakultet Elektrotehnike Univerziteta u Tuzli

Doktorska disertacija: "Optimalna upotreba optičkih vlakana u pristupnim komunikacijskim mrežama"

Juli 2006

**Magistar elektrotehničkih nauka - Ekvalentno 360 ETSC bodova**

Elektrotehnički fakultet Sarajevo - Univerziteta u Sarajevu

Magistarski rad: "Jednokanalne optičke veze velikih brzina"

Juli 1996

**Diplomirani inženjer elektrotehnike - Ekvalentno 240 ECTS bodova**

Elektrotehnički fakultet Sarajevo - Univerziteta u Sarajevu

## LIČNE VJEŠTINE

Maternji jezik Bosanski

Drugi jezik/ci

	RAZUMJEVANJE		GOVOR		PISANJE
	Slušanje	Čitanje	Usmena interakcija	Usmeno izražavanje	
engleski	B1 (Interlingua) B2 (Perfectly spoken) nivo 6 (Leonardo)	B1 (Interlingua) B2 (Perfectly spoken) nivo 6 (Leonardo)	B1 (Interlingua) B2 (Perfectly spoken) nivo 6 (Leonardo)	B1 (Interlingua) B2 (Perfectly spoken) nivo 6 (Leonardo)	B2 (Perfectly spoken) nivo 6 (Leonardo)

Komunikacione vještine

Odlične komunikacijske vještine stečene:

- u radu sa korisnicima usluga u BH Telecom
- uposlenicima u BH Telecom iskustvo od 20 godina na rukovodećim pozicijama
- kao sa studentima na PMF-u;

Organizacione / upravljačke vještine

- 20 godina iskustva na rukovodećim pozicijama u BH Telecomu
- Osnivač i predsjednik međunarodne konferencije FOAN - Fiber Optics in Access Network,
  - FOAN se do sada održao 8 puta u različitim zemljama svijeta, posljednji FOAN2019 u Sarajevo imao je učesnike iz 22 zemlje svijeta;
- Predsjednik Sekcije inženjera elektronike, automatike i telekomunikacija pri Inženjerskoj komori u FBiH;
- Pomoćnik glavnog urednika časopisa Fiber and Integrated Optics, izdavač Francis&Teylor;

Poslovne vještine

- Poznavanje računarskih mreža:
  - potpuno poznavanje: IP/TCP protokola, Etherenta, HTTP protokola
- Programerske sposobnosti:
  - Izrada složenih programa u Basic, Pascal, Visual Basic i C++; koa što je simulacija kruženja elektrona oko jezgra i interakcija sa svjetlošću, Program za vođenje Videoteke, izrada brzih proračuna i crtanje šema za potrebe BH Telecoma, upravljanje Smart home uređajima baziranim na mikrokontrolerima.
  - Rad sa drugim programskim jezicima (hobi): Payton, Java, Javascript,
- Web dizajn: rad sa ISP programima i sa izrada stranica u izvornom HTML
- Simulacijski alati: Matlab/Simulink i Multisim;
- Uredski paket kao što su; Word, PowerPoint, Excel,...
- Operativni sistemi: Windows, MacOS, Android, IOS, Linux
  - kombinacija IOS i vlastitog Smart home program u C++
  - korištenje terminala u Android za potrebe dijagnosticiranja kvara na mrežama i komunikaciju sa drugim uređajima;

Vozačka dozvola

B kategorija

DODATNE INFORMACIJE



## Publikacije u časopisima

1. Maslo, A., Hodzic, M., Skaljo, E., & Mujcic, A. (2020). Aging and Degradation of Optical Fiber Parameters in a 16-Year-Long Period of Usage. *Fiber and Integrated Optics*, 1-14;
2. Hodara, Henri, and Edvin Skaljo. "Beyond 400 Gbps: Reaching for Higher Data Rates and Connectivity." *Fiber and Integrated Optics* (2019): 1-18;
3. A Lipovac, E Škaljo, V Lipovac, P Njemčević "Practical Prediction of CFO-Made OFDM Symbol Distortion" *Automatic Control and Computer Sciences*, 2019;
4. Yu, Yi-Lin, et al. "Bidirectional Wavelength Reconfigurable Module Based on Tuneable Fiber Bragg Grating and Remote Pump Amplifier." *Fiber and Integrated Optics* 33.5-6 (2014): 383-394.
5. Faruk Selmanović, Edvin Skaljo, Boris Nemsic, "Gigabit-capable Passive Optical Network in Telecommunication Networks", *Fiber and Integrated Optics*, Volume 31, Issue 2, 2012;
6. Edvin S, Gerd Keiser, Aljo Mujčić and Faruk Selmanović, "Introduction to Special Issue on Second Fiber Optics in Access Networks (FOAN), Held in Budapest, October 2011", *Fiber and Integrated Optics*, Volume 31, Issue 2, 2012;
7. Edvin S, Gerd K, Aljo M, Faruk S., "Special Report from the First International Workshop on Fiber Optics in Access Networks - FOAN2010 held in Moscow in October 2010", *Fiber and integrated optics*, Issue 30, V 5, 2011;
8. Edvin S, Aljo M, Nermin S, "Usage of Optical Power Meter in Passive Optical Networks" *Fiber and integrated optics*, Issue 30, V 5, 2011;

## Publikacije u konferencijskim zbornicima (indeksiranim)

1. Maslo, A., Hodzic, M., Mujcic, A., & Skaljo, E. (2019, September). Degradation of Optical Fiber Parameters During the Period of Usage: 2003-2019. In *2019 International Workshop on Fiber Optics in Access Networks (FOAN)* (pp. 72-77). IEEE.
2. Adriana Lipovac ; Edvin Škaljo ; Vlatko Lipovac ; Pamela Njemčević "BER-Based Estimation of OFDM CFO-Caused Symbol Phase Deviation" *Proceeding of Advances in Wireless and Optical Communications (RTUWO)*, Riga, Latvia, November 2018  
DOI: doi.org/10.1109/RTUWO.2018.8587863; Publisher: IEEE Base: IEEE xplore, CrossRef
3. Hohzic M., Maslo A., Skaljo E. "Analysis of Techno-Economic Profitability on the Example of Construction of an Optical Suburban Access Network in Srebrenica", *Advanced Technologies, Systems, and Applications II. IAT 2017. Lecture Notes in Networks and Systems*, vol 28.  
DOI: doi.org/10.1007/978-3-319-71321-2\_66; Publisher: Springer, Cham  
Base: CrossRef, Springer Link
4. Hodzic M., Skaljo E., Suljanovic N., Mujcic A. "Transmission of Two Optical Signals Through the Fibber in Opposite Directions Using PLC

- Splitters—Practical Measurements*". Advanced Technologies, Systems, and Applications II. IAT 2017. Lecture Notes in Networks and Systems, vol 28. Springer, Cham  
DOI: doi.org/10.1007/978-3-319-71321-2\_68; Publisher: Springer, Cham  
Base: CrossRef, Springer Link
5. Maslo A., Hohzic M., Mujcic A., Skaljo E. "Last Mile at FTTH Networks: Challenges in Building Part of the Optical Network from the Distribution Point to the Users in Bosnia and Herzegovina". Advanced Technologies, Systems, and Applications III. IAT 2018. Lecture Notes in Networks and Systems, vol 59.  
DOI: doi.org/10.1007/978-3-030-02574-8\_38; Publisher: Springer, Cham  
Base: CrossRef, Springer Link
  6. Munster, P., Horvath, T., Havlis, O., Vojtech, J., Radil, J., Velc, R., & Skaljo, E. (2017, May). *Simultaneous transmission of standard data, precise time, stable frequency and sensing signals and their possible interaction*. In *Optical Sensors 2017*(Vol. 10231, p. 102312A). International Society for Optics and Photonics.  
DOI: doi.org/10.1117/12.2266240; Publisher: SPIE  
Base: Web of Science, CrossRef, SPIE Digital Libery,
  7. Munster, P., Radil, J., Vojtech, J., Havlis, O., Horvath, T., Smotlacha, V., & Skaljo, E. (2017, April). Simultaneous transmission of the high-power phase sensitive OTDR, 100Gbps dual polarisation QPSK, accurate time/frequency, and their mutual interferences. In *Fiber Optic Sensors and Applications XIV* (Vol. 10208, p. 102080D). International Society for Optics and Photonics.  
DOI: doi.org/10.1117/12.2267259; Publisher: SPIE  
Base: Web of Science, CrossRef, SPIE Digital Libery,
  8. Skaljo, E., Hodzic, M., & Mujcic, A. (2015, October). A cost effective topology in fiber to the home point to point networks based on single wavelength bi-directional multiplex. In *Fiber Optics in Access Network (FOAN), 2015 International Workshop on* (pp. 11-16). IEEE.  
DOI: doi.org/10.1109/foan.2015.7318291; Publisher: IEEE  
Base: Web of Science, SCOPUS, IEEE xplore, CrossRef,
  9. Yu, Y. L., Liaw, S. K., Skaljo, E., Minh, H. L., & Ghassemlooy, Z. (2014, September). Bidirectional wavelength reconfigurable module based on tunable fiber bragg grating and remote pump amplifier. *Fiber and Integrated Optics*, 33(5-6), 383-394.  
DOI: doi.org/10.1080/01468030.2014.982308; Publisher: Taylor&Francis  
Base: Web of Science, CrossRef,
  10. Yu, Y. L., Liaw, S. K., Hsu, H. Y., Skaljo, E., Minh, H. L., & Ghassemlooy, Z. (2013, September). Bidirectional wavelength reconfigurable optical network using remote pump amplifier and tunable fiber Bragg gratings. In *2013 4th International Workshop on Fiber Optics in Access Network (FOAN)* (pp. 11-14).  
DOI: doi.org/10.1109/foan.2013.6648818  
Base: Web of Science, SCOPUS, IEEE xplore, CrossRef

11. **Edvin Skaljo**, Boris Nemsic, Aljo Mujčič, Slobodan Babić, “*Clock Recovery Where GPON is Used as a Mobile Back-haul*”, ICUMT - FOAN 2012, St. Petersburg, October 2012;  
DOI: doi.org/10.1109/icumt.2012.6459719; Publisher: IEEE  
Base: Web of Science, SCOPUS, IEEE xplora, CrossRef
12. Zgalj, A., E. Skaljo, and E. Kadusic, "Pulse width as an influencing factor in Optical Time Domain Reflectometry measurements." Telecommunications Forum (TELFOR), 2011 19th. IEEE, 2011;
13. Akyel, Cevdet, Slobodan Babić, and **Edvin Skaljo**, "A new analytical model for square spiral inductors incorporating a magnetic layer." Microwave Conference Proceedings (APMC), 2011 Asia-Pacific. IEEE, 2011;
14. **Edvin Skaljo**, Aljo Mujčič, "Measurement of optical power in the upstream of PON signal from a single ONU at the side of the central office by Optical Power meter ", ICUMT - FOAN 2010, Moscow October 2010;
15. **Edvin Skaljo** "GPON in Telecommunication Network", ICUMT - FOAN 2010, Moskva October 2010; Faruk Selmanovic;
16. **Edvin Skaljo**, Nasuf Hadžiahmetović, Cevdet Akyel, “*Impact of Broadcast, Multicast and Unknown Unicast on Low Speed DSL connections based on SHDSL*”, Elmar 2010, Zadar, Croatia, September 2010;
17. **Edvin Skaljo**, Mujo Hodžić, Ismet Bektas „*Migration from G(E)PON to NG PON*“, ICUMT 2009, St Petersburg, Russia, Oct 2009;

Publikacije u lokalnim i regionalnim konferencijskim zbornicima (indeksiranim)

1. Emir Karadža, Edvin Škaljo, "Measurement of Insertion Losses Caused by the Longitudinal Separation of Fiber Ends", International Symposium on Information and Communication Technologies”, Teslic, Bosnia and Herzegovina, 2017;
2. Mujo Hodžić, Edvin Škaljo, Aljo Mujčič, "Transmission of Two Optical Signals Through the Fiber in Opposite Directions Using PLC Splitters", International Symposium on Information and Communication Technologies - ISICT, Teslic, Bosnia and Herzegovina, 2017;
3. **Edvin Skaljo**, Mujo Hodžić, Ismet Bektas, “*Univerzalno tehnično reševanje za razširitev prve/zadnje milje optike v pristopu*” (Universal technical solution for solving the first/last mile of optical cable in access), ERK09, Portoroz, Slovenia, 2009;
4. **Edvin Skaljo** at al, “*GPON in TDM environment*”, MIPRO2009, Opatija, Croatia, June 2009;
5. **Edvin Skaljo**, “*Gigabit Ethernet Passive Optical Network – GEAPON*”, ICT 2007, Sarajevo, Bosnia and Herzegovina, 2007;
6. **Edvin Skaljo**, Mujo Hodžić, Muradif Husić, Ismet Bektas, „*FTTH – Challenge and business case*”, ERK07, Portoroz, Slovenija, Sep 2007;
7. **Edvin Skaljo**, “*Mjerenje gubitaka snage na optičkim komunikacijskim sistemima*” (Measurement of power penalty on optical communication systems), MIPRO 2006, Opatija, Croatia, 2006;
8. **Edvin Skaljo**, “*Japanska iskustva u FTTH i mogućnost njihove primjene u BiH*” (The Japanese experience in FTTH and their applicability in BiH), BIHTEL III, Sarajevo, 2006.

Prezentacije

1. “Fiber-to-the-Home (FTTH) Network Architectures and Technologies: P2P, GPON, and NG-PON”, Los Angeles, UCLA, May 2018;
2. “FTTH: components and architecture”, King Mongkut's Institute of Technology Ladkrabang Bangkok, September 2017).

3. "Opportunities for using the FTTH network (GPON) for mobile backhaul", Layer123, Packet microwave conference, London September 2015;
4. "Opportunities for using the FTTH network (GPON) for mobile backhaul", Informa LTE conference, Amsterdam, June 2015;
5. Edvin Skaljo, "Where Are We At With the Best Combination of Copper and Fibre?", Informa FTTx summit, Berlin, April 2015,
6. Edvin Škaljo, "Next Generation Access: GPON consideration", Faculty of Electric, University of Ljubljana, Ljubljana, February 2015;
7. Edvin Škaljo "Opportunities for using the FTTH network (GPON) for mobile backhaul", Dusseldorf, September 2014;
8. Edvin Skaljo, Boris Nemsic, "Broadband and New Video Technologies Offer Video Service for Everyone" Eurasian Economic Forum – EAEF2013, September, 2013, Xi'an, China
9. "Fiber optics as technology does not represent an obstacle for further develop of DSL", DSL Acceleration Conference, April 2013, Paris France;
10. "Specificity of fiber optic components in the access networks", Broadband World Forum 2012, Amsterdam, October 2012;
11. "Determining how to develop the strategies needed to effectively handle the scale and complexity of fibre deployment", FTTx Summit Eastern Europe, Budapest, September 2012;
12. "Migration to an NGA network", 9<sup>th</sup> Annual SEE Telecoms - Financing FTTx rollout, Zagreb, December 2011;
13. "Examining why and how to manage QoS and QoE as you migrate to an NGA network", Delivering High Speed Broadband, IQPC, Prague, October 2011;
14. "Impact of IPTV on telecommunication network and the consequences" Broadband World Forum, Paris, September 2011;
15. „Examining how to migrate to an NGA network and determining how to optimise QoS”, FTTx Summit Europe, April, London 2011;
16. "Evaluating different strategies for GPON deployments", FTTx Summit 2009, Munich, Germany, June 2009;
17. "Optički kabl u pristupnim mrežama - Optical cable in access networks", INTSIKT 2009, Tuzla BiH, June 2009 ;
18. "Point To Point Ethernet vs. GPON", FTTx 07, Informa, Copenhagen, Denmark, Dec. 2007
19. "Is FTTH real option for BiH and Surround?," INTSIKT 2007, Tuzla Bosnia and Herzegovina, July 2007; Mujo Hodzic, Edvin Skaljo, Muradif Husic,
20. "Can FTTH Start on the Balkans? When and How?" , OptoTech&Tech - FiberWeek: 2007, Stari Grad, Croatia, April 2007 ; Edvin Skaljo, Muradif Husic,

## Projekti

1. CESNET E-Infrastructure – Modernisation, Registration number CZ.02.1.01/0.0/0.0/16\_013/0001797, <https://photonics.cesnet.cz/en> , 2017

## Citati

86 citat prema GoogleScholar, h-index=4

## Nagrade priznanja izbor

Senior member IEEE  
Senior member SPIE  
Senior member OSA

Sarajevo, 13.01.2021.

Edvin Škaljo